

1 ABSTRACT

2 A surgical procedure is disclosed utilizing a cordless
3 surgical handpiece powered from a sterile battery pack that
4 contains a battery in condition for immediate use without further
5 charging or sterilization. The battery chemistry is based upon
6 lithium/manganese dioxide, and the battery after a single use may
7 be disposed of into non-hazardous waste. The compact surgical
8 handpiece has a brushless DC motor and a manually operated
9 external trigger for activating and controlling the motor
10 operations. Interengaging sets of contacts on the handpiece and
11 battery are adapted to become lockingly and conductively
12 interengaged upon rotation of the battery pack relative to the
13 handpiece, in a manner that rapidly achieves correct alignment of
14 the parts and also ensures stable mechanical attachment and
15 support during the surgical procedure.